

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T
(pursuant to NAC 445A.236)

Permittee Name: Bently Family Limited Partnership for Bently Agrowdynamics reuse

Permit Number: NEV2002514

Description of Discharge

Location: North of Minden in Douglas County
1089 Stockyard Road.
Latitude: 39° 58' 00"N
Longitude: 119° 44' 0058"W
Section 21, T. 13N., R. 20E. MDB&M

Characteristics: This permit is for agricultural reuse of secondary treated disinfected wastewater supplied by the Minden Gardnerville Sanitation District (MGSD NEV40027) plant in Minden, Nevada.

Flow: 3.83 MGD

Quantities:

EFFLUENT LIMITATIONS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS
	<u>30-day Ave.</u>	<u>Daily Max</u>	<u>Measurement</u>
BOD ₅ :	30 mg/L	45 mg/L	Weekly
TSS:	30 mg/L	45 mg/L	Weekly
pH:	Between 6.0 and 9.0 S.U.		Weekly
Fecal Coliform:	200 CFU/MPN/100 ml	400 CFU/MPN/100 ml	Weekly
Total Nitrogen-N:	Monitor & Report mg/L (MGSD, site outfalls 001a, 001b)		Monthly
Total Nitrogen-N:	Monitor & Report actual nitrogen applied lbs/ac		4 th Quarter
Total Nitrogen applied shall not be greater than the agronomic rate in the EMP(Alfalfa-270 lb/ac, small grains 43.7 lb/ac)(Annual)			

General: Domestic wastewater is treated to secondary standards and disinfected by MGSD prior its delivery to the Middle Ranch of Bently Agrowdynamics for reuse irrigation, or for winter storage in a 60 mil HDPE lined, 2200 acre foot reservoir in the foothills of the Pine Nut Mountains east of the Bently agricultural lands. Effluent is delivered to this reservoir via a 29,000 linear foot 18" pipeline which is connected on the west side of US Highway 395 with the MGSD 4,650 linear foot 18" pipeline which extends eastward from the MGSD pump station #3 located next to the MGSD storage reservoirs on Mueller Lane. A pipeline intertie between

the DCSID forcemain and the Bently reservoir will provide operational flexibility for effluent management. When DCSID effluent is pumped to the reservoir for storage, the two effluents are blended. The two effluents are of the same quality and receive the same level of treatment and disinfection, so are considered the same quality. During the irrigation season, the treated effluent will supply three (3) pressure zones for spray, and some drip irrigation of alfalfa and small grains (rye, wheat, barley) within the reuse areas on the Middle Ranch. Approximately 2000 acres will receive this water for irrigation during the term of this permit; eventually approximately 5,200 acres will be under reuse irrigation. Fields under spray irrigation will have the applicable irrigation field buffer zone of 400 feet as specified in NAC 445A.276; no tailwater run-off is allowed. Effluent is also blended into the irrigation distribution system seasonally with ditch (river) water and or groundwater; in some new areas of the Middle Ranch under cultivation reuse water is the sole source of irrigation water. All effluent reuse is in accordance with the approved Effluent Management Plan (EMP). Acreages and crops are being increased with effluent irrigation as part of a planned agricultural operations expansion on the Middle Ranch property.

Receiving Water Characteristics: The receiving waters are the groundwaters underlying the reuse sites. There is a shallow perched aquifer in places which is dominated by infiltration from irrigation and recharge. This shallow aquifer is currently not used for drinking, but it flows North by Northwest to the Carson River. Groundwater monitoring is required, and additional wells have been installed to track groundwater quality and prevent degradation of the perched aquifer and subsequent potential of the Carson River.

Procedures for Public Comment:

The notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **RENO GAZETTE-JOURNAL** and to the **RECORD-COURIER** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of publication of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency,

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the Regional Administrator of U.S. EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing scheduled by the Administrator must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to issue the proposed permit.

Proposed Effluent Limitations, Schedule of Compliance and Special Conditions

See above. There are no special conditions. The final EMP shall be submitted to the Division within 180 days of permit issuance.

Rationale for Permit Requirements

Monitoring is required to prevent degradation of the perched aquifer and subsequent potential for degradation of the Carson River to which it flows. Monitoring is also required to prevent application of excessive nitrogen.

Prepared by: Icyl C. Mulligan
November, 2003

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